



STIC Search Report

EIC 2100

STIC Database Tracking Number: 174690

TO: David Cervetti
Location: RND 2D30
Art Unit: 2136
Tuesday, December 20, 2005

Case Serial Number: 09/895703

From: Ruth E. Spink
Location: EIC 2100
RND-4B31
Phone: 23524

Ruth.spink@uspto.gov

Search Notes

David – Attached is the foreign patent and NPL search for the above referenced case. I tagged a few that I thought might be of particular interest. Be sure to let me know if you would like for me to refocus the search.

Ruth



STIC EIC 2100

Search Request Form

174690

Today's Date: 12/20/05

What date would you like to use to limit the search?

Priority Date: 6/29/2001 Other:

Name David Cervetti
AU 2136 Examiner # 80559
Room # RND 2-D-30 Phone 272-5861
Serial # 091895-703

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB
 IEEE INSPEC SPI Other Google / Scholar

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

A key pad device that assigns a predetermined value to each key, then it determines which key has been pressed using a predetermined number of steps.

STIC Searcher _____ Phone _____

Date picked up _____ Date Completed _____



| Set | Items | Description |
|---------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S1 | 243213 | KEY? ? |
| S2 | 5575605 | VALUE? ? OR NUMBER? ? OR DIGIT? ? OR NUMERAL? ? OR FIGURE? ? OR LETTER? ? OR CHARACTER? ? OR SYMBOL? ? |
| S3 | 552459 | (PREDETERMIN? OR ASSIGN? ? OR ASSIGNED OR ASSIGNING OR SET? ? OR SETTING OR PRESET OR PRESETTING OR DESIGNATE? ? OR DESI- GNATING OR PRESCRIBE? ? OR PRESCRIBING OR SPECIFIC OR SPECIFI- ED OR SPECIFYING) (3N) S2 |
| S4 | 4896 | S3 (5N) S1 |
| S5 | 290617 | KEYBOARD? ? OR KEYPAD? ? OR KEY()PAD? ? OR DIAL? ? OR PAD? ? |
| S6 | 1063539 | PRESS?? OR PUSH?? OR PUNCH?? |
| S7 | 185278 | BUTTON? ? OR PUSHBUTTON? ? OR PRESSBUTTON? ? OR KNOB? ? OR CONTROLKNOB? ? OR PUSHKNOB? ? OR PRESSKNOB? ? |
| S8 | 1595 | S4 AND (S5 OR S6) |
| S9 | 209 | S4 AND S5 AND S6 |
| S10 | 134 | S9 AND IC=G06F |
| S11 | 42 | S4 (10N) S5 (10N) S6 |
| S12 | 26 | S11 AND IC=G06F |
| S13 | 26 | IDPAT (sorted in duplicate/non-duplicate order) |
| S14 | 25 | IDPAT (primary/non-duplicate records only) |
| File 347:JAPIO Nov 1976-2005/Jul (Updated 051102) | | |
| (c) 2005 JPO & JAPIO | | |
| File 350:Derwent WPIX 1963-2005/UD,UM &UP=200581 | | |
| (c) 2005 Thomson Derwent | | |

14/5/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

017451694 **Image available**

WPI Acc No: 2005-775369/200580

XRPX Acc No: N05-644691

Electronic device e.g. mobile phone identifies individual and simultaneous key entry of data key of keyboard, to input character string with characters designated in pressed individual keys based on simultaneous key entry of data keys

Patent Assignee: ECOERG KENKYUSHO KK (ECOE-N); KITAMURA T (KITA-I)

Inventor: KINOSHITA R; KITAMURA T

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2005316917 | A | 20051110 | JP 2004158409 | A | 20040426 | 200580 B |

Priority Applications (No Type Date): JP 2004158409 A 20040426

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| JP 2005316917 | A | 17 | | G06F-003/023 | |

Abstract (Basic): JP 2005316917 A

NOVELTY - An identification unit identifies the individual and simultaneous key entry of data key of **keyboard** (01), to automatically input the **character** string with **characters designated** in the **pressed** individual **keys** according to simultaneous key entry of data keys.

USE - Electronic device with keyboard, e.g. mobile phone.

ADVANTAGE - Enables user to input the character string efficiently abd easily by excluding key entry of character string set and without using the shift key and specific function key.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the electronic device. (Drawing includes non-English language text).

keyboard (01)
input controller (10)
key stroke unit (11)
controller (12)
memory (15)
table (16)
pp; 17 DwgNo 1/13

Title Terms: ELECTRONIC; DEVICE; MOBILE; TELEPHONE; IDENTIFY; INDIVIDUAL; SIMULTANEOUS; KEY; ENTER; DATA; KEY; KEYBOARD; INPUT; CHARACTER; STRING; CHARACTER; DESIGNATED; PRESS; INDIVIDUAL; KEY; BASED; SIMULTANEOUS; KEY; ENTER; DATA; KEY

Derwent Class: T01; T04; U21; W01

International Patent Class (Main): **G06F-003/023**

International Patent Class (Additional): H03M-011/04; H03M-011/08;
H04M-001/23

File Segment: EPI

14/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016279014 **Image available**

WPI Acc No: 2004-436909/200441

XRPX Acc No: N04-345701

Character input device in mobile telephone, reads character corresponding to pressed down key of key pad by referring kana character conversion table

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2004171406 | A | 20040617 | JP 2002338457 | A | 20021121 | 200441 B |

Priority Applications (No Type Date): JP 2002338457 A 20021121

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| JP 2004171406 | A | 8 | | G06F-003/023 | |

Abstract (Basic): JP 2004171406 A

NOVELTY - A kana character storage unit (104) stores the kana character conversion table (105) in which a kana character is set corresponding to each key of key pad (101). A controller (103) alters the character allocated to each key arbitrarily and reads the character corresponding to the pressed down key by referring the kana character conversion table.

USE - For inputting kana character using keys in keypad of mobile telephone.

ADVANTAGE - The characters are input easily using the key pad and the allocation of the character to each key is altered arbitrarily. Thereby shortening character input time.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the character input device. (Drawing includes non-English language text).

- key pad (101)
- key stroke detector (102)
- controller (103)
- kana character storage unit (104)
- kana character conversion table (105)
- display (106)

pp; 8 DwgNo 1/4

Title Terms: CHARACTER; INPUT; DEVICE; MOBILE; TELEPHONE; READ; CHARACTER; CORRESPOND; PRESS; DOWN; KEY; KEY; PAD; REFER; CHARACTER; CONVERT; TABLE

Derwent Class: T01; T04; U21

International Patent Class (Main): G06F-003/023

International Patent Class (Additional): G06F-017/22 ; H03M-011/04; H03M-011/22

File Segment: EPI

14/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015628648
WPI Acc No: 2003-690819/200366
XRPX Acc No: N03-551838

Quick key method for programmable keyboard
Patent Assignee: TAIWAN TAIMENG ENTERPRISE CO LTD (TATA-N)

Inventor: WANG M

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|---------------|------|----------|----------|
| CN 1434377 | A | 20030806 | CN 2002102507 | A | 20020123 | 200366 B |

Priority Applications (No Type Date): CN 2002102507 A 20020123

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|-------------|--------------|
| CN 1434377 | A | | G06F-009/06 | |

Abstract (Basic): CN 1434377 A

NOVELTY - The invention is a shortcut key method of programmable keyboard, includning the following steps: first, judge if the indicator light of keyboard mode is turned on; second, if yes, execute any one of plural shortcut keys on the **keyboard** ; third, if no, execute the **preset standard key - press value** of the **keyboard** ; and the **keyboard** has 3 indicator lights, and according to if the indicator light of **keyboard** mode is turned on, switch the keyboard to the standard or shortcut keyboard.

DwgNo 0/0

Title Terms: QUICK; KEY; METHOD; PROGRAM; KEYBOARD

Derwent Class: T01; T04

International Patent Class (Main): G06F-009/06

File Segment: EPI

14/5/5 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015301001 **Image available**
WPI Acc No: 2003-361935/200334
XRPX Acc No: N03-288994

Key-pad decoder in financial transaction system, has controller which determines whether single key or multiple keys are activated in same time, by comparing key press values with predetermined values
Patent Assignee: CHARLIER F (CHAR-I); ZENTNER J (ZENT-I)
Inventor: CHARLIER F; ZENTNER J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applcat No Kind Date Week
US 20030005325 A1 20030102 US 2001895703 A 20010629 200334 B

Priority Applications (No Type Date): US 2001895703 A 20010629

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20030005325 A1 7 G06F-011/30

Abstract (Basic): US 20030005325 A1

NOVELTY - The key-pad has several keys, each assigned with a key press value. A key - pad controller adds the key press value of the activated keys to a counter, and compares the added key press values to a predetermined value . The controller determines whether single key or multiple keys are activated at the same time, based on the comparison result.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for activated key determination method.

USE - In financial transaction system.

ADVANTAGE - Since it is capable of determining whether a single key or multiple keys are activated at the same time, access of secret information by unauthorized person is prevented.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart of activated key determination process.

pp; 7 DwgNo 2/4

Title Terms: KEY; PAD; DECODE; FINANCIAL; TRANSACTION; SYSTEM; CONTROL; DETERMINE; SINGLE; KEY; MULTIPLE; ACTIVATE; TIME; COMPARE; KEY; PRESS; VALUE; PREDETERMINED; VALUE

Derwent Class: T01; T04; U21; W01

International Patent Class (Main): G06F-011/30

File Segment: EPI

14/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015004520 **Image available**

WPI Acc No: 2003-065037/200306

XRPX Acc No: N03-050797

Character input device for mobile telephone, displays character extracted from matrix table, as input character when predetermined number of keys are selected with respect to extracted character

Patent Assignee: NEC CORP (NIDE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2002342012 | A | 20021129 | JP 2001143027 | A | 20010514 | 200306 B |

Priority Applications (No Type Date): JP 2001143027 A 20010514

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| JP 2002342012 | A | 7 | | G06F-003/023 | |

Abstract (Basic): JP 2002342012 A

NOVELTY - A matrix table switching unit (105) selects predetermined character of a line corresponding to any one of the **key - pads pressed** down by operating unit (101), from the matrix table. A display unit (108) displays the selected character as input **character** when **predetermined number of keys** are selected with respect to the character extracted from matrix table.

USE - Used for mobile telephone.

ADVANTAGE - Improves operativity by reducing key pressing down frequency for character input, sharply.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the character input device. (Drawing includes non-English language text).

Operating unit (101)

Matrix table switching unit (105)

Display unit (108)

pp; 7 DwgNo 1/10

Title Terms: CHARACTER; INPUT; DEVICE; MOBILE; TELEPHONE; DISPLAY; CHARACTER; EXTRACT; MATRIX; TABLE; INPUT; CHARACTER; PREDETERMINED; NUMBER; KEY; SELECT; RESPECT; EXTRACT; CHARACTER

Derwent Class: T01; T04; W01

International Patent Class (Main): G06F-003/023

International Patent Class (Additional): G06F-017/22 ; H04M-001/00

File Segment: EPI

14/5/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014792518 **Image available**

WPI Acc No: 2002-613224/200266

XRPX Acc No: N02-485740

Key-pad character input method for mobile telephones, involves displaying character corresponding to combination of pair of keys pressed successively by referring to key table

Patent Assignee: KATO K (KATO-I); NAKAHARA H (NAKA-I); PANASU DATA BASE KK (PANA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|--------------|------|----------|----------|
| JP 2002215306 | A | 20020802 | JP 200114077 | A | 20010123 | 200266 B |

Priority Applications (No Type Date): JP 200114077 A 20010123

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| JP 2002215306 | A | 20 | | G06F-003/023 | |

Abstract (Basic): JP 2002215306 A

NOVELTY - Different **characters** are **assigned** for each **key** in a **key - pad**. When a pair of keys are **pressed** successively, a character corresponding to the combination of the keys is determined from the intersection of the corresponding key symbols arranged in a key table and then displayed.

USE - For input of characters through key-pads of telephones, mobile telephones, personal computers, digital television, car, game machine.

ADVANTAGE - Large number of characters can be displayed by a key-pad with few keys, by the use of the key table.

DESCRIPTION OF DRAWING(S) - The figure shows a conceptual diagram of the key-pad. (Drawing includes non-English language text).

pp; 20 DwgNo 1/18

Title Terms: KEY; PAD; CHARACTER; INPUT; METHOD; MOBILE; TELEPHONE; DISPLAY ; CHARACTER; CORRESPOND; COMBINATION; PAIR; KEY; PRESS; SUCCESSION; REFER ; KEY; TABLE

Derwent Class: T01; T04; U21

International Patent Class (Main): G06F-003/023

International Patent Class (Additional): G06F-003/03 ; G06F-003/033 ; H03M-011/08

File Segment: EPI

14/5/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014629768 **Image available**

WPI Acc No: 2002-450472/200248

XRPX Acc No: N02-355384

Computer e.g. desktop and notebook type personal computers has keyboard assigned with figures for corresponding keys to perform specific operation

Patent Assignee: SAIGAWA M (SAIG-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2002132416 | A | 20020510 | JP 2000324004 | A | 20001024 | 200248 B |

Priority Applications (No Type Date): JP 2000324004 A 20001024

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|-------------|--------------|
| JP 2002132416 | A | 6 | | G06F-003/02 | |

Abstract (Basic): JP 2002132416 A

NOVELTY - Several **figures** (13) are assigned to each **key** of a **keyboard** (1). The figures are displayed by a numerical designation unit, when prescribed key (3) is **pressed**, based on which computer software performs prescribed operation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for of-instruction system of computer.

USE - E.g. desktop personal computer, notebook type personal computer.

ADVANTAGE - Facilitates easy operation of computer even for old people, handicapped people. Operation of the computer can be learned easily without knowledge person.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of the keyboard.

Keyboard (1)

Key (3)

Figures (13)

pp; 6 DwgNo 1/6

Title Terms: COMPUTER; TYPE; PERSON; COMPUTER; KEYBOARD; ASSIGN; FIGURE;

CORRESPOND; KEY; PERFORMANCE; SPECIFIC; OPERATE

Derwent Class: T01

International Patent Class (Main): G06F-003/02

International Patent Class (Additional): G06F-001/00

File Segment: EPI

14/5/9 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014391422 **Image available**

WPI Acc No: 2002-212125/200227

XRXPX Acc No: N02-162089

Terminal equipment using kana character input system has input unit which selects kana character from input character candidates that pertains to kana character shown on display unit

Patent Assignee: KYOCERA CORP (KYOC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2002041224 | A | 20020208 | JP 2000225851 | A | 20000726 | 200227 B |

Priority Applications (No Type Date): JP 2000225851 A 20000726

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|--------------|--------------|
| JP 2002041224 | A | | 5 | G06F-003/023 | |

Abstract (Basic): JP 2002041224 A

NOVELTY - The character elemental piece of a kana character stored in a kana character database is assigned to each key in a key-pad. The key pushed by kana character input operation is compared with the patterns on the database. A display unit shows the kana character corresponding to the equivalent pattern as an input character candidate. An input unit selects the kana character from the input character candidates.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a kana character input system.

USE - Terminal equipment using kana character input system.

ADVANTAGE - Simplifies input of character by less number of key operation.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of the key-pad of a mobile communication terminal. (Drawing includes non-English language text)

pp; 5 DwgNo 2/5

Title Terms: TERMINAL; EQUIPMENT; CHARACTER; INPUT; SYSTEM; INPUT; UNIT; SELECT; CHARACTER; INPUT; CHARACTER; CANDIDATE; CHARACTER; DISPLAY; UNIT

Derwent Class: T01; U21; W01

International Patent Class (Main): G06F-003/023

International Patent Class (Additional): G06F-017/22 ; H03M-011/04; H03M-011/08; H04M-001/247

File Segment: EPI

14/5/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013845365

WPI Acc No: 2001-329578/200135

XRPX Acc No: N01-237215

Method of mobile telephone virtual keyboard

Patent Assignee: YINGYEDA GROUP ELECTRONIC TECHNOLOGY CO (YING-N)

Inventor: HE Q; ZHANG Z

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| CN 1268833 | A | 20001004 | CN 99104186 | A | 19990324 | 200135 B |
| CN 1117306 | C | 20030806 | CN 99104186 | A | 19990324 | 200549 |

Priority Applications (No Type Date): CN 99104186 A 19990324

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-----------|------|--------|----------|--------------|
|-----------|------|--------|----------|--------------|

| | | | | |
|------------|---|--|-------------|--|
| CN 1268833 | A | | H04M-001/00 | |
|------------|---|--|-------------|--|

| | | | | |
|------------|---|--|-------------|--|
| CN 1117306 | C | | G06F-003/00 | |
|------------|---|--|-------------|--|

Abstract (Basic): CN 1268833 A

NOVELTY - The invention is a method to improve data key entry that standard keys CCITT is combined with multiple function keys to form actual **keyboard** and key value list to produce virtual **keyboard**. It includes at least following steps, to show corresponding virtual **key** according to **preset keyboard state value**; to judge if any actual **key** is **pushed**, to get the key value by inquiring key value list; the to get virtual value by inquiring **key value** list as **preset keyboard state value** and **key value**; if the virtual key value is virtual **keyboard** switching key, to change **keyboard** state value according to the key value of virtual keyboard switching key, to display corresponding virtual keyboard by calling keyboard display modular group and clear the key value, otherwise to display the virtual key value.

DwgNo 0/0

Title Terms: METHOD; MOBILE; TELEPHONE; VIRTUAL; KEYBOARD

Derwent Class: W01

International Patent Class (Main): G06F-003/00 ; H04M-001/00

File Segment: EPI

14/5/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013223469 **Image available**

WPI Acc No: 2000-395343/200034

XRPX Acc No: N00-297097

Character input device e.g. keyboard for electronic navigation chart display, has table to store characters assigned to keys on priority level, and when key is pressed, higher priority character is displayed

Patent Assignee: JAPAN RADIO CO LTD (NIUR)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|-------------|------|----------|----------|
| JP 2000137566 | A | 20000516 | JP 98313320 | A | 19981104 | 200034 B |

Priority Applications (No Type Date): JP 98313320 A 19981104

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|-------------|--------------|
| JP 2000137566 | A | 4 | | G06F-003/02 | |

Abstract (Basic): JP 2000137566 A

NOVELTY - Search table (2) stores different characters which are assigned to the key pad, according to specific priority level. A character table having higher priority is chosen from the table by a controller (3) and is displayed on an indicator (4) whereas a CHAR key is pressed. If the displayed character is not the objective character to be input next higher priority character is displayed and checked.

USE - Character input device e.g. keyboard for electronic CHAR display in navigation apparatus for use in watercraft.

ADVANTAGE - Since characters which are assigned to key pad are stored in specific priorities in search table are stored in search table in priority level. The pressing frequency of number of keys is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows the components of character input device.

Search table (2)

Controller (3)

Indicator (4)

pp; 4 DwgNo 1/2

Title Terms: CHARACTER; INPUT; DEVICE; KEYBOARD; ELECTRONIC; NAVIGATION; CHART; DISPLAY; TABLE; STORAGE; CHARACTER; ASSIGN; KEY; PRIORITY; LEVEL; KEY; PRESS; HIGH; PRIORITY; CHARACTER; DISPLAY

Derwent Class: T01; T04

International Patent Class (Main): G06F-003/02

International Patent Class (Additional): G06F-003/00

File Segment: EPI

14/5/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012993274 **Image available**

WPI Acc No: 2000-165126/200015

XRPX Acc No: N00-123624

Input key switch configuration for desk computer, PC, word processor - has press contacts that individually operate switches distributed at back side of each key pad of keyboard, sequentially for input of numeric character and for adding of input numerical character

Patent Assignee: SENBA K (SENBA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|-------------|------|---------|----------|
| JP 2000020220 | A | 20000121 | JP 98182374 | A | 1998062 | 200015 B |

Priority Applications (No Type Date): JP 98182374 A 19980629

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|---------------|------|--------|-------------|--------------|
| JP 2000020220 | A | 7 | G06F-003/02 | |

Abstract (Basic): JP 2000020220 A

NOVELTY - Switches (24,25) are distributed at the back side of each key pad of a keyboard. When a press contact is operated, the switch (24) inputs an input numerical value specified by that input key. When another press contact is operated, the switch (25) adds the input numerical value of input key.

USE - For desk computer, PC, word processor.

ADVANTAGE - Enables continuous data entry and continuous command processing of user quickly, since unnecessary pushing of input key is prevented. Decreases failure of input key by which it is effective in blind operation. DESCRIPTION OF DRAWING(S) - The figure shows connection condition of switch of desk computer. (24,25) Switches.

Dwg.1/5

JP 2000020220 A

NOVELTY - Switches (24,25) are distributed at the back side of each key pad of a keyboard. When a press contact is operated, the switch (24) inputs an input numerical value specified by that input key. When another press contact is operated, the switch (25) adds the input numerical value of input key.

USE - For desk computer, PC, word processor.

ADVANTAGE - Enables continuous data entry and continuous command processing of user quickly, since unnecessary pushing of input key is prevented. Decreases failure of input key by which it is effective in blind operation. DESCRIPTION OF DRAWING(S) - The figure shows connection condition of switch of desk computer. (24,25) Switches.

Dwg.1/5

Title Terms: INPUT; KEY; SWITCH; CONFIGURATION; DESK; COMPUTER; WORD; PROCESSOR; PRESS; CONTACT; INDIVIDUAL; OPERATE; SWITCH; DISTRIBUTE; BACK; SIDE; KEY; PAD; KEYBOARD; SEQUENCE; INPUT; NUMERIC; CHARACTER; ADD; INPUT; ; NUMERIC; CHARACTER

Derwent Class: T01; V03

International Patent Class (Main): G06F-003/02

International Patent Class (Additional): H01H-013/14

File Segment: EPI

14/5/14 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012255153

WPI Acc No: 1999-061259/199906

XRPX Acc No: N99-045384

Character coding method and the keyboard therefor - dividing all Chinese characters into 6 types by their shape structures and their encoding using given rules while code length is four codes

Patent Assignee: CHEN M (CHEN-I)

Inventor: CHEN M; GAO S

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| CN 1193763 | A | 19980923 | CN 96101643 | A | 19960127 | 199906 B |

Priority Applications (No Type Date): CN 96101643 A 19960127

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|--------------|--------------|
| CN 1193763 | A | 1 | G06F-003/023 | |

Abstract (Basic): CN 1193763 A

A Chinese-character encode method and its keyboard feature that all the Chinese characters are divided into 6 types by their shape structures and then encoded based on defined rules. The code length is 4 codes. If encoded Chinese character is less than 4 codes, an ID code is added, or space bar is further pressed. For its keyboard, the cells of Chinese characters are assigned to correspondent letter keys by the association between sound and shape. Its advantages are simple rules, less cells for keyboard, easy to master it, high typing speed and no duplication.

Title Terms: CHARACTER; CODE; METHOD; KEYBOARD; DIVIDE; CHINESE; CHARACTER; TYPE; SHAPE; STRUCTURE; ENCODE; RULE; CODE; LENGTH; FOUR; CODE

Derwent Class: T01; T04; U21

International Patent Class (Main): G06F-003/023

File Segment: EPI

14/5/15 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012110697 **Image available**

WPI Acc No: 1998-527609/199845

XRPX Acc No: N98-412642

Character input method using small key pad for small sized electronic apparatus - involves storing assembly of symbols related to each key which is pressed for predefined number of times for input operation

Patent Assignee: NOKIA MOBILE PHONES LTD (OYNO)

Inventor: LAAKKONEN K

Number of Countries: 005 Number of Patents: 008

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| JP 10233831 | A | 19980902 | JP 9817048 | A | 19980129 | 199845 B |
| FI 9700468 | A | 19980805 | FI 97468 | A | 19970204 | 199845 |
| KR 98071024 | A | 19981026 | KR 982947 | A | 19980203 | 199953 |
| US 6043760 | A | 20000328 | US 9817391 | A | 19980202 | 200023 |
| FI 105601 | B1 | 20000915 | FI 97468 | A | 19970204 | 200054 |
| CN 1192003 | A | 19980902 | CN 98104096 | A | 19980204 | 200276 |
| KR 380343 | B | 20030710 | KR 982947 | A | 19980203 | 200409 |
| CN 1117308 | C | 20030806 | CN 98104096 | A | 19980204 | 200549 |

Priority Applications (No Type Date): FI 97468 A 19970204

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-------------|------|-----|----|--------------|-----------------------------------|
| JP 10233831 | A | 6 | | H04M-001/27 | |
| FI 9700468 | A | | | G06F-003/023 | |
| KR 98071024 | A | | | G06F-003/02 | |
| US 6043760 | A | | | H03M-011/00 | |
| FI 105601 | B1 | | | G06F-003/023 | Previous Publ. patent FI 9700468 |
| CN 1192003 | A | | | G06F-003/00 | |
| KR 380343 | B | | | G06F-003/02 | Previous Publ. patent KR 98071024 |
| CN 1117308 | C | | | G06F-003/02 | |

Abstract (Basic): JP 10233831 A

The method involves using a key pad (100) in which several characters or symbols (101) are assigned to each push button key. The symbols relevant to each key is chosen based upon the operating language.

The assembly of symbols related to each key is stored in a memory (302). By pressing the key 'n' times in succession, the symbol in the stored order is input.

USE - For portable telephone, pager.

ADVANTAGE - Offers small sized keypad with limited number of keys.

Dwg.1/3

Title Terms: CHARACTER; INPUT; METHOD; KEY; PAD; SIZE; ELECTRONIC; APPARATUS; STORAGE; ASSEMBLE; SYMBOL; RELATED; KEY; PRESS; PREDEFINED; NUMBER; TIME; INPUT; OPERATE

Derwent Class: W01

International Patent Class (Main): G06F-003/00 ; G06F-003/02 ; G06F-003/023 ; H03M-011/00; H04M-001/27

International Patent Class (Additional): H04M-001/00

File Segment: EPI

14/5/16 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012094326 **Image available**

WPI Acc No: 1998-511237/199844

XRPX Acc No: N98-398950

Personal computer with auxiliary equipment for keyboard input - stops transmitting specific character string data stored in memory to main body, on distinguished that key pushed on keyboard is not specific key stored in memory

Patent Assignee: NIPPON GIJUTSU KK (NIGI-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| JP 10222278 | A | 19980821 | JP 9734358 | A | 19970203 | 199844 B |

Priority Applications (No Type Date): JP 9734358 A 19970203

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-------------|------|--------|--------------|--------------|
| JP 10222278 | A | 7 | G06F-003/023 | |

Abstract (Basic): JP 10222278 A

The computer has a auxiliary equipment for keyboard input (1) connected between its main body (2) and a keyboard (3). The data file which specifies one-to-one correspondence between specific keys and specific character strings, is transmitted from the main body to the auxiliary equipment. Then, a **specific character** string data is **set up** for a specific **key** of the **keyboard** and stored in a memory of the auxiliary equipment. When a key of the **keyboard** is **pushed**, a key discriminator distinguishes whether the **pushed** key is the specific key stored in the memory.

On distinguishing that the pushed key is the specific key stored in the memory, then the specific character string data corresponding to the specific key is transmitted from the memory to the main body. On distinguishing that the pushed key is not the specific key stored in the memory, then the character string data is not transmitted to the main body.

ADVANTAGE - Enables keyboard to be used as function keyboard.
Improves key input work efficiency. Secures compact space.

Dwg.2/5

Title Terms: PERSON; COMPUTER; AUXILIARY; EQUIPMENT; KEYBOARD; INPUT; STOP; TRANSMIT; SPECIFIC; CHARACTER; STRING; DATA; STORAGE; MEMORY; MAIN; BODY; DISTINGUISH; KEY; PUSH; KEYBOARD; SPECIFIC; KEY; STORAGE; MEMORY

Derwent Class: T01; T04; U21

International Patent Class (Main): G06F-003/023

International Patent Class (Additional): H03M-011/04; H03M-011/14

File Segment: EPI

14/5/18 (Item 18 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07195249 **Image available**
ELECTRONIC RESISTER

PUB. NO.: 2002-063654 [JP 2002063654 A]
PUBLISHED: February 28, 2002 (20020228)
INVENTOR(s): ISHIKAWA KENICHI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.: 2000-252847 [JP 2000252847]
FILED: August 23, 2000 (20000823)
INTL CLASS: G07G-001/12; G06F-003/02

ABSTRACT

PROBLEM TO BE SOLVED: To enable to acquire an operator number, an acquisition of a manager number, a start/end of repetition and an acquisition of magnetic card data by pressing a macro key on an electronic register.

SOLUTION: An operator **number** acquisition code is **set** into macro **key** information corresponding to the macro key on a **keyboard**. When the macro key is **pressed** and the operator number acquisition code exists in the macro key information, the number of an operator in charge is acquired and the operator number is transferred to a key code decoder. When a manager number acquisition code is set, the manager number is transferred. When a repetition start/end code is set, designated setting data are repeatedly transferred for designated times. When a magnetic card data acquisition code is set, the magnetic card data are transferred as key entry data.

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14/5/24 (Item 24 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

00697125 **Image available**
CHARACTER STRING INPUT KEYBOARD

PUB. NO.: 56-017425 [JP 56017425 A]
PUBLISHED: February 19, 1981 (19810219)
INVENTOR(s): TAKAHASHI YASUMI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 54-093380 [JP 7993380]
FILED: July 23, 1979 (19790723)
INTL CLASS: [3] **G06F-003/02**
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units)
JOURNAL: Section: P, Section No. 60, Vol. 05, No. 69, Pg. 28, May 09,
1981 (19810509)

ABSTRACT

PURPOSE: To improve input manipulation by providing a keyboard circuit and a dedicated memory circuit for a character string used frequently.

CONSTITUTION: To store a character string, write start key 12 is depressed to indicate a character string input and then character string input keys S1... on **keyboard** 11 are depressed to fix **keys** for the **specific character** string. Next, a character string to be input by use of ordinary **keyboard** 10 is input and then end key 13 is **pushed**, thereby completing write operation. To read it, keys S1... are depressed. A control circuit discriminates between the input from ordinary keyboard 10 and that from character string input keyboard 11 and, when judging a signal from the character string input keys, selects and outputs the corresponding character string from a character string memory unit.

14/5/25 (Item 25 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

00603416 **Image available**
CHINESE CHARACTER INPUT DEVICE

PUB. NO.: 55-091016 [JP 55091016 A]
PUBLISHED: July 10, 1980 (19800710)
INVENTOR(s): TSUKAMURA YOSHIHIRO
TOBISHIMA TAKAAKI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 53-162016 [JP 78162016]
FILED: December 28, 1978 (19781228)
INTL CLASS: [3] G06F-003/02
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units)
JAPIO KEYWORD: R106 (INFORMATION PROCESSING -- Kanji Information Processing)
JOURNAL: Section: P, Section No. 30, Vol. 04, No. 142, Pg. 89, October
07, 1980 (19801007)

ABSTRACT

PURPOSE: To secure the accurate input of the Chinese characters in an extremely high efficiency through a quick operation by securing selection of the Chinese characters by just sequential push of three or four units of the kana letter (Japanese syllabary) keys and at the same time facilitating the easy memorization of the phrase defining the Chinese characters.

CONSTITUTION: The **keyboard** of input device 1 contains the array of 49 units of **keys** to **designate** the 49 kana **letters**. Then kana letter **keys** are **pushed** selectively according to the phrases by defining the character to be supplied with the 2-letter phrase the head of which comes the Chinese character. And thus the prescribed code signal is delivered from device 1 to be sent to code converter 2 for conversion into the code signal showing the Chinese character corresponding to the phrase. Based on this code signal, the Chinese character signal is obtained from character generator 3 to be then delivered 4. In this way, the Chinese characters can be supplied accurately in an extremely high efficiency.

Set Items Description
S1 200874 KEY? ?
S2 1710221 VALUE? ? OR NUMBER? ? OR DIGIT? ? OR NUMERAL? ? OR FIGURE?
 ? OR LETTER? ? OR CHARACTER? ? OR SYMBOL? ?
S3 415054 (PREDETERMIN? OR ASSIGN? ? OR ASSIGNED OR ASSIGNING OR SET?
 ? OR SETTING OR PRESET OR PRESETTING OR DESIGNATE? ? OR DESI-
 GNATING OR PRESCRIBE? ? OR PRESCRIBING OR SPECIFIC OR SPECIFI-
 ED OR SPECIFYING) (3N) S2
S4 5249 S3 (5N) S1
S5 199936 KEYBOARD? ? OR KEYPAD? ? OR KEY()PAD? ? OR DIAL? ? OR PAD?
 ?
S6 868 S4 (30N) S5
S7 334 S6 AND IC=G06F
S8 1 S6 AND IC=G06F-011
S9 252 S7 AND AY=1978:2001
S10 21852 S1 (10N) S5
S11 699 S10 (5N) S3
S12 523 S10 (3N) S3
S13 195 S12 AND IC=G06F
S14 1 S12 AND IC=G06F-011
S15 154 S13 AND AY=1978:2001
S16 556277 PRESS?? OR PUSH?? OR PUNCH??
S17 347 S4 (10N) S16
S18 114 S17 AND IC=G06F
S19 45 S17 (10N) S5
S20 20 S19 AND IC=G06F
S21 20 IDPAT (sorted in duplicate/non-duplicate order)
S22 20 IDPAT (primary/non-duplicate records only)
S23 120468 BUTTON? ? OR PUSHBUTTON? ? OR PRESSBUTTON? ? OR KNOB? ? OR
 CONTROLKNOB? ? OR PUSHKNOB? ? OR PRESSKNOB? ?
S24 1910 S3 (5N) S23
S25 21 S24 (10N) S16 (10N) S5
S26 3 S25 AND IC=G06F
S27 2 S26 NOT S22

File 348:EUROPEAN PATENTS 1978-2005/Dec W02

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File 349:PCT FULLTEXT 1979-2005/UB=20051215,UT=20051208

(c) 2005 WIPO/Univentio

8/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00313593

Method of and apparatus for establishing a servicing mode of an electronic apparatus.

Verfahren und Gerät zum Aufbauen eines Kundendienstmodus eines elektronischen Gerätes.

Procede et dispositif d'établissement d'un mode de service d'un appareil électronique.

PATENT ASSIGNEE:

SONY CORPORATION, (214021), 7-35 Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, (JP), (applicant designated states: DE;FR;GB;NL)

INVENTOR:

Suzuki, Masakazu, Pat.Div. Sony Corporation 6-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Suematsu, Masayuki, Pat.Div. Sony Corporation 6-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Komiya, Yoshinori, Pat.Div. Sony Corporation 6-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

LEGAL REPRESENTATIVE:

Thomas, Christopher Hugo et al (36661), D Young & Co 10 Staple Inn, London WC1V 7RD, (GB)

PATENT (CC, No, Kind, Date): EP 298625 A2 890111 (Basic)
EP 298625 A3 900711
EP 298625 B1 930804

APPLICATION (CC, No, Date): EP 88305617 880621;

PRIORITY (CC, No, Date): JP 87170307 870708

DESIGNATED STATES: DE; FR; GB; NL

INTERNATIONAL PATENT CLASS: G01R-031/28; G06F-011/22 ; H04N-017/00

CITED PATENTS (EP A): EP 167664 A; US 4369442 A; US 4634846 A; EP 136060 A

ABSTRACT EP 298625 A2

In controlling an electronic apparatus, such as a colour television receiver, of the type having signal processing circuits (2 to 4, 6, 7) which are individually adjustable in accordance with control signals from a central processing unit (CPU) (9) in response to data corresponding to predetermined standardized conditions of the circuits (2 to 4, 6, 7) and which are stored in a non-volatile memory (11) along with a secret code, operating keys (12, 22) selectively actuatable to provide input data the CPU (9) for representing an externally applied code and, in a servicing mode of the receiver, for rewriting the data in the memory (11) and an inner bus (13) connecting the CPU (9) to the adjustable circuits (2 to 4, 6, 7), the memory (11) and the operating keys (12, 22); a standby power supply (15) provides electric power to the CPU (9) at a time when operating keys (22) are actuated for inputting data representing an externally applied code to the CPU (9), a main power supply (17) is turned on for supplying power to the adjustable circuits (2 to 4, 6, 7) and thereby cause the receiver to display an image, and the servicing mode of the receiver is established only when the externally applied code coincides with the stored secret code and the turning on of the main power supply (17) is effected within a predetermined period after the externally applied code has been made to be coincident with the store secret code.

ABSTRACT WORD COUNT: 251

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890111 A2 Published application (A1with Search Report
;A2without Search Report)

Search Report: 900711 A3 Separate publication of the European or
International search report

Examination: 910109 A2 Date of filing of request for examination:
901112

Examination: 921209 A2 Date of despatch of first examination report:
921027

Grant: 930804 B1 Granted patent
Oppn None: 940727 B1 No opposition filed

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS B | (English) | EPBBF1 | 924 |
| CLAIMS B | (German) | EPBBF1 | 818 |
| CLAIMS B | (French) | EPBBF1 | 969 |
| SPEC B | (English) | EPBBF1 | 3509 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 6220 |
| Total word count - documents A + B | | | 6220 |

...INTERNATIONAL PATENT CLASS: G06F-011/22

...SPECIFICATION hue and balance of the displayed image are automatically set to respective intermediate or standardized **values** which **are predetermined** and **stored** in the memory 11, thereby to adjust simultaneously the several characteristics to a standardized condition...
?

22/5, K/1 (Item 1 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
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01522468

TOUCH-TYPE KEY INPUT APPARATUS
TOUCHTYPE-TASTENEINGABEVORRICHTUNG
ORGANE DE SAISIE A TOUCHES TACTILES

PATENT ASSIGNEE:

MISAWA HOMES CO. LTD, (1369661), 4-5 Takaido Higashi 2-chome, Suginami-ku
, Tokyo 168-0072, (JP), (Applicant designated States: all)
Kato, Syunji, (2077261), 34-6, Mejirodai 3-chome, Hachioji-shi, Tokyo
193-0833, (JP), (Applicant designated States: all)

INVENTOR:

KATO, Syunji, 34-6, Mejirodai 3-chome, Hachioji-shi, Tokyo 193-0833,
(JP)

LEGAL REPRESENTATIVE:

Goddar, Heinz J., Dr. (4231), FORRESTER & BOEHMERT Pettenkoferstrasse
20-22, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1383034 A1 040121 (Basic)
WO 2002088920 021107

APPLICATION (CC, No, Date): EP 2002722823 020426; WO 2002JP4214 020426
PRIORITY (CC, No, Date): JP 2001131899 010427

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/023 ; G06F-003/03 ; G06F-003/033

ABSTRACT EP 1383034 A1

A touch press key inputting device includes: a plurality of character keys 21(equivalent to)32 with at least 2 characters displayed on the surface of each key; an input judging means 72 for sensing the character keys touched and the first touched points in the area of the character keys, performing a movement longer than a specified length originally touched, and judging a moving direction in touch press inputting; a character selecting and outputting means 73 for selecting and outputting the characters displayed in the moving direction, corresponding to the moving direction judged by the input judging means, relative to the reference positions of the character keys. Since the characters on the positions are selected and output corresponding to the touch press inputting operations of the characters displayed on the key surfaces of respective character keys 21(equivalent to)32, the inputting operations can be directly sensed and easily assured, and the inputting operability is improved.

ABSTRACT WORD COUNT: 154

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030102 A1 International application. (Art. 158(1))

Application: 030102 A1 International application entering European phase

Application: 040121 A1 Published application with search report

Examination: 040121 A1 Date of request for examination: 20031029

LANGUAGE (Publication, Procedural, Application): English; English; Japanese

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | 200404 | 1919 |
| SPEC A | (English) | 200404 | 29918 |
| Total word count - document A | | | 31837 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 31837 |

INTERNATIONAL PATENT CLASS: G06F-003/023 ...

... G06F-003/03 ...

... G06F-003/033

...SPECIFICATION are exceedingly time-consuming.

In addition, the virtual keyboard for the (box - upper left)soft **keyboard** input(box - lower right) commonly is **set** with one **character** for each **press key** respectively, so the **press** keys are very fine, crowded, and difficult to touch. For example: there are 26 letters...the operation is simple, the characters can be input conveniently and quickly.

3. Every character **key** 21-32 can **set 7 characters** at most, and the number of the **press** keys is reduced comparing with (box - upper left)soft **keyboard** input(box - lower right) in which one key corresponds to one character, so that the...

...keyboard 15 has same character key and function key in number and shape as the **keyboard** piece 5.

Illustrations are made to the same **characters set** on **press key** on the positions corresponding to the positions of the pres keys 21-32 and 51...keys is easy to remember, and they can be used immediately.

Because only 15 character **keys** 121-135 are **set**, and the **number** of the **press keys** is much less than that of the general **keyboard**, thereby they can be set into a small portable machine.

(Embodiment 7)

The seventh embodiment...

22/5,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00288699

Method for character code generation.

Verfahren zum Erzeugen eines Zeichenkodes.

Methode pour la generation d'un code a caractere.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;SE)

INVENTOR:

Prame, Eric Sune, Hagtornstunet 7, S-181 48 Lidingo, (SE)

LEGAL REPRESENTATIVE:

Johansson, Lars E. et al (23225), IBM Svenska AB Intellectual Property
Department 4-01, S-163 92 Stockholm, (SE)

PATENT (CC, No, Kind, Date): EP 286906 A1 881019 (Basic)
EP 286906 B1 911127

APPLICATION (CC, No, Date): EP 88105084 880329;

PRIORITY (CC, No, Date): SE 871445 870407

DESIGNATED STATES: DE; FR; GB; SE

INTERNATIONAL PATENT CLASS: H03M-011/00; G06F-003/023

CITED PATENTS (EP A): US 3967273 A; GB 2134293 A; US 4443789 A; GB 2064187
A; EP 11307 A

ABSTRACT EP 286906 A1

In a keyboard operation two sequential keystrokes are used for generation of a character code. A rule is set up according to which some preset combinations of two sequential keystrokes are valid and other are not. The rule is implemented by storing the validity conditions into a table in a control unit. According to a preferred rule the second key to be operated must be located on a column to the right of the column where the first key is located, otherwise an error signal will be generated. The method is preferably used for a one hand keyboard with three times four keys.

ABSTRACT WORD COUNT: 107

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 881019 A1 Published application (A1with Search Report
;A2without Search Report)

Examination: 890419 A1 Date of filing of request for examination:
890222

Change: 900321 A1 Representative (change)

Examination: 901031 A1 Date of despatch of first examination report:
900912

Grant: 911127 B1 Granted patent

Lapse: 920610 B1 Date of lapse of the European patent in a
Contracting State: SE 911127

Oppn None: 921119 B1 No opposition filed

Lapse: 970423 B1 Date of lapse of the European patent in a
Contracting State: DE 961203, SE 911127

Lapse: 970423 B1 Date of lapse of the European patent in a
Contracting State: DE 961203, GB 960329, SE
911127

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|----------------|-----------|--------|------------|
| CLAIMS B | (English) | EPBBF1 | 188 |
| CLAIMS B | (German) | EPBBF1 | 173 |
| CLAIMS B | (French) | EPBBF1 | 208 |
| SPEC B | (English) | EPBBF1 | 1426 |

Total word count - document A 0

Total word count - document B 1995

Total word count - documents A + B 1995

...INTERNATIONAL PATENT CLASS: G06F-003/023

...SPECIFICATION columns and rows to generate a character code by striking a first and a second **key** in a **predetermined** sequence. Each **character** is represented by a unique sequence **of** two **pushes** of the pushbutton **keyboard**, the second button being pushed being situated, according to a general rule, in a column...

22/5,K/9 (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01245306 **Image available**

**ELECTRONIC DEVICE AND USER INTERFACE AND INPUT METHOD THEREFOR
DISPOSITIF ELECTRONIQUE, INTERFACE UTILISATEUR, ET PROCEDE D'ENTREE
CORRESPONDANT**

Patent Applicant/Assignee:

MOTOROLA INC, 1303 East Algonquin Road, Schaumburg, IL 60196, US, US
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

SACHER Heiko K, 2225 Sharon Road, #223, Menlo Park, CA 94025, US, US
(Residence), US (Nationality), (Designated only for: US)

ROMERA Maria E, 4402 Madoc Way, San Jose, CA 95130, US, US (Residence),
US (Nationality), (Designated only for: US)

NAGEL Jens, 725 Burnett Avenue, #6, San Francisco, CA 94131, US, US
(Residence), DE (Nationality), (Designated only for: US)

Legal Representative:

DOUTRE Barbara R (et al) (agent), 8000 West Sunrise Boulevard, Room 1610,
Plantation, FL 33322, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200552733 A2 20050609 (WO 0552733)

Application: WO 2004US38065 20041116 (PCT/WO US04038065)

Priority Application: US 2003719576 20031121

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT
RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7012

English Abstract

A portable electronic device (100, 400) and user interface (425) are operated using a method including initiating entry of a content string; determining the most probable completion alternative or a content prediction using a personalized and learning database (430); displaying the most probable completion alternative or next content prediction; determining whether a user has accepted the most probable completion alternative or next content prediction; and adding the most probable completion alternative or next content prediction to the content string upon user acceptance.

French Abstract

La presente invention concerne un appareil electronique portable (100, 400) et une interface utilisateur (425) mis en oeuvre grace a un procede enchainant plusieurs operations. On commence par lancer l'entree d'une sequence de contenu. On utilise une base de donnees (430) personnalisee et d'apprentissage pour determiner une solution de substitution d'achevement la plus probable ou une prediction de contenu. On determine une solution de substitution d'achevement la plus probable ou une

prediction de contenu suivante. Enfin, des acceptation, on ajoute a la sequence de contenu la solution de substitution d'achevement la plus probable ou une prediction de contenu suivante.

Legal Status (Type, Date, Text)

Publication 20050609 A2 Without international search report and to be republished upon receipt of that report.

Main International Patent Class: **G06F**

Fulltext Availability:

Detailed Description

Detailed Description

... QWERTY keyboard or a numeric telephone keypad to input text. Many devices having numeric telephone **keypads** use multi-tap entry methods, in which multiple **letters** are **assigned** to a single **key** , and that key is **pressed** multiple times to select the desired letter, number, or other desired content. This can be...

22/5, K/10 (Item 10 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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01200198 **Image available**

LATTICE MATCHING

CORRESPONDANCE DE TREILLIS

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200508523 A2-A3 20050127 (WO 0508523)

Application: WO 2004GB3084 20040716 (PCT/WO GB04003084)

Priority Application: GB 200316669 20030716

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **G06F-017/30**

International Patent Class: G10L-015/08

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12118

English Abstract

A system is described for matching lattices such as phoneme lattices generated by an automatic speech recognition unit. The system can be used to retrieve files from a database by comparing a query lattice with annotation lattices associated with the data files that can be retrieved, and by retrieving the data files having an annotation lattice most similar to the query lattice.

French Abstract

L'invention concerne un systeme conçu pour mettre en correspondances des treillis tels que des treillis phonémiques produits par une unite de reconnaissance vocale automatique. Le systeme peut servir a extraire des fichiers d'une base de données par comparaison d'un treillis d'interrogation a des treillis d'annotation associes aux fichiers de données que l'on peut extraire, et par extraction des fichiers de données presentant un treillis d'annotation tres similaire au treillis d'interrogation.

Legal Status (Type, Date, Text)

Publication 20050127 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20050428 Late publication of international search report

Republication 20050428 A3 With international search report.

Republication 20050428 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: **G06F-017/30**

Fulltext Availability:
Detailed Description

Detailed Description

... via a keyboard which assigns more than one character to each key (such as the **keyboard** of a mobile phone), where the user must repeatedly **press** each **key** to cycle through the **characters assigned** to that **key** , In such an embodiment, the confusion probabilities would be adjusted so that characters assigned to...

22/5, K/12 (Item 12 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00975237 **Image available**

TEXT ENTRY METHOD AND DEVICE THEREFOR

PROCEDE D'INTRODUCTION DE TEXTE ET DISPOSITIF CORRESPONDANT

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200305179 A1 20030116 (WO 0305179)

Application: WO 2002IB2647 20020624 (PCT/WO IB0202647)

Priority Application: GB 200116083 20010630

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-003/023

International Patent Class: G06F-003/033

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3559

English Abstract

A method and device for improved character input are described, wherein the method employs a keypad 100 comprising keys 102 able to display secondary characters 106 in addition to primary characters 104. The keypad has a default display state. A first key selection causes the keypad 100 to display secondary characters 106 associated with the first key on other keys 102, whereupon a second key selection causes the displayed character to be input, following which the keypad reverts to displaying the default state. Further secondary characters 200 may also be displayed after a first key selection. The method is particularly useful for handheld devices such as mobile radio telephones or handheld computers adapted to implement the method of the invention

French Abstract

L'invention concerne un procede et un dispositif destine a faciliter l'introduction de caracteres; ce procede utilise un clavier (100) comprenant des touches (102) capables d'afficher des caracteres secondaires (106) en plus des caracteres primaires (104). Le clavier a un etat d'affichage par defaut. Une premiere selection de touches fait en sorte que le clavier (100) affiche des caracteres secondaires (106) associes a la premiere touche sur les autres touches (102), et une deuxieme selection de touches entraine l'introduction du caractere affiche, apres que le clavier affiche de nouveau l'etat par defaut. D'autres caracteres secondaires (200) peuvent aussi etre affiches apres une premiere selection de touche. Le procede est particulierement utile

pour des dispositifs portatifs tels que les radiotéléphones mobiles ou les ordinateurs de poche, conçus pour mettre en œuvre le procédé de l'invention.

Legal Status (Type, Date, Text)

Publication 20030116 A1 With international search report.

Main International Patent Class: G06F-003/023

International Patent Class: G06F-003/033

Fulltext Availability:

[Detailed Description](#)

[Detailed Description](#)

... is achieved by

providing an associated display area within, on or situated adjacent to the **key**.

The default **assigned** secondary **characters** are provided adjacent to the **keys**

on the **keypad**, and the user **presses** the keys to input characters in accordance with a

22/5, K/13 (Item 13 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00971796 **Image available**

GRAPHIC USER INTERFACE WITH REMOTE CONFIGURATION TO ACCESS COMPUTER NETWORK SYSTEME ET DISPOSITIF EXPLOITES AU MOYEN D'UN ECRAN DE TERMINAL DESTINE A DES APPLICATIONS INTERACTIVES ET MULTIVOIES D'UNE INTERFACE UTILISATEUR GRAPHIQUE AVEC UNE CONFIGURATION A DISTANCE AFIN D'AVOIR ACCES A UN RESEAU INFORMATIQUE

Patent Applicant/Assignee:

FUNDACAO CENTROS DE REFERENCIA EM TECNOLOGIAS INOVADORAS - CERTI, Campus da Universidade Federal de Santa Catarina, Acesso Pantanal, Sector C, Trindade, CPE-88040-970 Florianopolis, SC, BR, BR (Residence), BR (Nationality), (For all designated states except: US)

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Legal Representative:

LLC INFO CONNECTION LTDA (agent), 60 Hermengarda St., RM 403, Meier, CEP-20710-010 Rio de Janeiro, BR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200300001 A2-A3 20030103 (WO 0300001)

Application: WO 2002BR87 20020620 (PCT/WO BR0200087)

Priority Application: BR 20012488 20010622

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **G06F-003/14**
Publication Language: English
Filing Language: English
Fulltext Availability:
 Detailed Description
 Claims
Fulltext Word Count: 4243

English Abstract

System and device applied by means of a terminal screen aimed at interactive and multi-channel application of user graphic interface with remote configuration to access a computer network, characterized by the association of physical command devices (2, 3, 6 and 7), which are comprised by mechanical keys such as direct access buttons made up of physical keys (6, 7) of direct access, and by electronic keys conformed as virtual keys (2 and 3), when provided with a touch-screen device; of graphic interface comprised by four elements represented by a channel bar (2), a command line (3), a selected or current channel position (4) and display area of the current channel (5), the referred graphic interface being preferably conformed as an "L" shape; a communication device (18) provided to allow connection to a computer network by means of TCP/IP protocol; an alpha-numerical keyboard device (8) for typing URL addresses and executing functions of the current URL (5), and an application which is intended for the recognition of response instructions of remote CGI related to the setup of virtual buttons.

French Abstract

L'invention se rapporte à un système et un dispositif exploités au moyen d'un écran de terminal destiné à des applications interactives et multivoies d'une interface utilisateur graphique avec une configuration à distance afin d'avoir accès à un réseau informatique, et caractérisées par l'association de dispositifs à commande physique (2, 3, 6 et 7) qui sont constitués de clés mécaniques telles que des boutons d'accès direct faits de clés physiques (2 et 3) lorsqu'ils sont fournis avec un écran tactile, d'une interface graphique comprenant quatre éléments représentés par une barre de choix de canaux (2), une ligne de commande (3), une position de canal choisie ou actuelle (5), l'interface graphique de référence adoptant de préférence une forme en <= L >=. L'invention concerne aussi un dispositif de communication (18) servant à établir une connexion entre un réseau informatique au moyen du protocole TCP/IP ; un dispositif de clavier alpha-numérique (8) afin de taper les adresses URL et d'exécuter les fonctions de l'URL actuelle (5), et une application qui sert à reconnaître des instructions de réponse du CGI à distance liées à la mise en place de boutons virtuels.

Legal Status (Type, Date, Text)

Publication 20030103 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20030227 Late publication of international search report
Republication 20030227 A3 With international search report.
Republication 20030227 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination 20030410 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: **G06F-003/14**

Fulltext Availability:
 Detailed Description

Detailed Description
... of the
scrolling device (6) and rapid access keys (7) as

if they were function **keys** of the **keyboard** itself,
designating a code **value** to the **pressed keys**
through an internal table of **keyboard** codes.

The **keyboard** sends this code to the **keyboard controller** (10) , which identifies this code as a command...

22/5, K/14 (Item 14 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00931231 **Image available**

GLOBAL TEXT INPUT APPARATUS
APPAREIL DE SAISIE DE TEXTE GLOBAL

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Patent Applicant/Inventor:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200265267 A1 20020822 (WO 0265267)

Application: WO 2002AU135 20020213 (PCT/WO AU0200135)

Priority Application: AU 20013104 20010214

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Main International Patent Class: **G06F-003/023**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4859

English Abstract

An input apparatus suitable for keypads having a limited number of keys and a plurality of Letters assigned to each of a set of keys. A desired letter may be selected from one of the Letters on any of the keys using one Letter-key stroke in conjunction with a Smart Key to define the Letter. Smart Keys are identified with a number, or other indicating means such as color, associating them with the sequential position of Letters displayed on the Letter keys, and are pressed in conjunction with the Letter key to which the desired Letter is assigned. Touch typing on a limited keyboard is possible after a short period of practice.

French Abstract

L'invention concerne un appareil de saisie adapte pour claviers possedant un nombre limite de touches et plusieurs lettres assignees a chaque ensemble de touches. Une lettre desiree peut etre selectionnee a partir d'une des lettres sur une touche quelconque en utilisant une touche lettre conjointement a une touche intelligente pour definir la lettre. Les touches intelligentes sont identifiees par un nombre, ou d'autres elements d'identification tels que la couleur, les associent a la position sequentielle des lettres affichees sur les touches lettres, et sont pressees conjointement a la touche lettre a laquelle est assignee la lettre desiree. La frappe par simple toucher sur un clavier limite est possible apres une courte periode de pratique.

Legal Status (Type, Date, Text)

Publication 20020822 A1 With international search report.

Main International Patent Class: **G06F-003/023**

English Abstract

...associating them with the sequential position of Letters displayed on the Letter keys, and are **pressed** in conjunction with the Letter **key** to which the desired **Letter** is **assigned**. Touch typing on a limited **keyboard** is possible after a short period of practice.

22/5, K/18 (Item 18 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00811338 **Image available**

FOLDABLE KEYBOARD FOR CARRYING PORTABLE DEVICE
CLAVIER EN FORME DE BOITIER

Patent Applicant/Inventor:

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, US (Nationality)

Patent and Priority Information (Country, Number, Date):

Patent: WO 200144910 A2-A3 20010621 (WO 0144910)

Application: WO 2000US31357 20001113 (PCT/WO US0031357)

Priority Application: US 99464594 19991216

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-001/16

International Patent Class: G06F-003/02

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2607

English Abstract

The case keyboard is an input device that folds around an electronic instrument to protect it and provide ease of transport. Because of its small size and portability, the case keyboard is very practical for providing instructions to electronic instruments that are small in themselves, enabling both devices to be easily transported. The electronic instrument could be a personal digital assistant (PDA), small computer, calculator, telephone, or other portable machines.

French Abstract

Le clavier en forme de boitier est un peripherique d'entree qui se replie autour d'un dispositif electronique afin de le proteger et d'en faciliter le transport. Grace a sa petite taille et sa portabilite, le clavier en forme de boitier est un outil tres pratique pour donner des instructions a des dispositifs electroniques qui sont eux-memes de dimensions reduites; il est ainsi facile de transporter les deux dispositifs. Parmi ces dispositifs electroniques, on pourrait citer les assistants personnels (PDA), les ordinateurs de poche, les calculettes, les telephones ou d'autres machines portables.

Legal Status (Type, Date, Text)

Publication 20010621 A2 Without international search report and to be republished upon receipt of that report.

Examination 20011004 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020110 Late publication of international search report

Republication 20020110 A3 With international search report.

Main International Patent Class: G06F-001/16

International Patent Class: G06F-003/02

Fulltext Availability:
Detailed Description

Detailed Description
... cursor positioner.

Operation

Operation of the first embodiment is the same as with the standard **keyboard**. The fingers **push** down on the **key** designating the **character** desired at the instrument.

Most **keys** in the second embodiment are activated the same as with a standard keyboard. However unlike...

22/5, K/19 (Item 19 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00798049 **Image available**

PATTERN MATCHING METHOD AND APPARATUS
PROCEDE ET DISPOSITIF D'APPARIEMENT DE MOTIFS

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HIGUCHI Asako, Corp IP and Legal Headquarters, 30-2 3-Chome Shimomaruko,
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(Designated only for: US)

Legal Representative:

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Court, High Holborn, London WC1R 5DJ, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200131627 A2-A3 20010503 (WO 0131627)

Application: WO 2000GB4112 20001025 (PCT/WO GB0004112)

Priority Application: GB 9925561 19991028; GB 9925560 19991028; GB
200025143 20001013

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

CN JP KR US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 26814

English Abstract

A system is provided for matching two or more sequences of phonemes both
or all of which may be generated from text or speech. A dynamic
programming matching technique is preferably used having constraints
which depend upon whether or not the two sequences are generated from
text or speech and in which the scoring of the dynamic programming paths
is weighted by phoneme confusion scores, phoneme insertion scores and
phoneme deletion scores where appropriate.

French Abstract

L'invention concerne un systeme permettant d'apparier au moins deux
sequences de phonemes pouvant tous etre generees a partir d'un texte ou
d'un discours. On utilise de preference une technique d'appariement a
programmation dynamique possedant des contraintes qui dependent de ce que
les sequences sont generees a partir d'un texte ou d'un discours et dans
lesquelles le denombrement des chemins de programmation dynamique est
pondere par des indices de confusion de phonemes, d'insertion de phonemes
ou de suppression de phonemes, la ou c'est necessaire.

Legal Status (Type, Date, Text)

Publication 20010503 A2 Without international search report and to be
republished upon receipt of that report.

Examination 20010913 Request for preliminary examination prior to end of
19th month from priority date

Search Rpt 20020523 Late publication of international search report
Republication 20020523 A3 With international search report.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... via a

keyboard which assigns more than one character to each key (such as the **keyboard** of a mobile phone), where the user must repeatedly **press** each **key** to cycle through the **characters assigned** to that **key**, In such an embodiment, the confusion probabilities would be adjusted so that characters assigned to...

27/5, K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00651364

User adaptive system and method

Dem Benutzer anpassungsfähiges System und Verfahren

Systeme et méthode d'adaptation à l'utilisateur

PATENT ASSIGNEE:

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CITED PATENTS (EP B): US 5191643 A

CITED REFERENCES (EP B):

CREATIVE LABS, INC 'SoundBlaster 16 User Reference Manual' 1992,
MILPITAS, CALIFORNIA, USA * page 10-3; figures 10-1 * * page 10-6;
figures 10-2 *;

ABSTRACT EP 627683 A2

A user adaptive system in a computer system executing an application program includes a storage area (132, 142) for storing therein a data structure corresponding to a combination of setting values of parameters to be set arbitrarily by a user for a job to be executed in the application program, a storage area (133, 143) for updating, each time a parameter setting operation is conducted by the user, the structure corresponding thereto, and a storage area operative, when a value of the data structure exceeds a threshold value, for registering a combination of setting values of parameters associated therewith. (see image in original document)

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...SPECIFICATION matrix 300 according to the present invention.

In the setting window 200, when the radio **button** 213 is **pushed** at the **setting value** input **button** 210, the **keyboard** input value 221 is "700" at the setting value input field 220, and the slide...

...frequency matrix 300 of the present invention.

In the setting window 200, when the user **pushes** the radio **button** 213 at the **setting value** input **button** 210, **sets** the **keyboard** input **value** 221 to "700" at the setting value input field 220, and then moves the slide...200 on the display 110, the user specifies by the mouse 120 or from the **keyboard** 150 the **setting values** at the **button** 210, the field 220, and the slider 230 (step 720).

The user then **pushes** the OK button 260 or the CANCEL button 270 to finish the setting operation (step...).

...SPECIFICATION matrix 300 according to the present invention.

In the setting window 200, when the radio **button** 213 is **pushed** at the **setting value** input **button** 210, the **keyboard** input value 221 is "700" at the setting value input field 220, and the slide...

...frequency matrix 300 of the present invention.

In the setting window 200, when the user **pushes** the radio **button** 213 at the **setting value** input **button** 210, **sets** the **keyboard** input **value** 221 to "700" at the setting value input field 220, and then moves the slide...200 on the display 110, the user specifies by the mouse 120 or from the **keyboard** 150 the **setting values** at the **button** 210, the field 220, and the slider 230 (step 720).

The user then **pushes** the OK button 260 or the CANCEL button 270 to finish the setting operation (step...).